

TX-321S

Triple head panoramic driver display



Barco's TX-321S panoramic driver display is an extremely rugged, all-in-one triple head display. Designed for the most demanding environments of the rugged vehicle, the TX-321S has been selected for the British Army's Specialist Vehicle Platform. Featuring three 8" displays with a near-zero bezel, a wide video image in 3072 x 768 resolution, and ultra-low latency, the TX-321S is ideal for enhancing a driver's view and local situational awareness.

Barco's thin and low-weight TX-321S display offers the latest proven technologies, such as low-reflection touch screen, LED backlighting, and sunlight readability. It features long-term availability of components for future-proof performance and a unique thermal management system to withstand the harshest temperature environments.

Barco's TX-321S features:

- Three 8" displays featuring 3072 x 768 resolution
- Low weight and slim design
- Innovative thermal management system
- LED backlights with high dimming ratio
- Near-zero latency
- Fully sealed, fanless design
- Minimal power consumption
- Intelligent LCD heater system for quick start-up in cold conditions
- Generic vehicle architecture compliant (DEF STAN 23-09)

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- EMI/EMC: DEF STAN 59-411 Land Class A compliant
- MilCAN-A interface

Product specifications**TX-321S**

Panel size	3 x 8.4" panoramic
Resolution	3072 x 768
Panel specifications	16.7 M colors, 256 gray scales
Brightness	Max. 686 cd/m ² (200 fL) typical Min: 0.03 cd/m ² (0.01 fL)
Dimming ratio	Typ. >2000:1
Contrast ratio	300:1
Viewing angle	Hor. at CR=10 ±65° Vert. at CR=10 ±50°
Video inputs	1 x single link DVI-D
Control	MilCAN-A 6 x Digital Inputs (MilCAN controlled) 10/100 MB Ethernet port (maintenance)
Connectors	MIL-D-38999/3 (DEF STAN 23-09 compliant)
Power Supply	28 VDC (DEF STAN 61-5 part 6 Issue 6)
Max. power consumption	At maximum brightness: 120 W With heating: 240 W
Operating temperature	Low operating temp.: -46°C High operating temp.: +63°C
Storage temperature	Low storage temp.: -46°C High storage temp.: +71°C
Humidity	Operating & storage: 95% at 40°C
Vibration	Test M1 (tracked vehicles)
Shock	30g 18 ms half sine, 200g 3 ms half sine
Ingress protection	IP65 (IEC 60529)
Altitude	Altitude (operating): up to 12,000 ft Altitude (storage): up to 50,000 ft
Sand & dust, salt fog	Compliant at unit level
EMI / EMC	EMI/EMC (DEF STAN 59-411 Part 3 Issue 1) Land Class A
Bezel controls	5 fixed function keys, dimmable backlight and key status indicators (DEF STAN 23-09 compliant)
Touch screen	Low-reflection AR touch screen, MilCAN interface Dedicated touchscreen enable/disable button on the bezel